

6.6 Powers & Roots of Complex Numbers(key-odds)

1. $27i$

3. $-1/2 + \sqrt{3}/2i$

5. $-16 + 16i$

7. $-119 - 120i$

$$z_1 = 2(\cos 10^\circ + i \sin 10^\circ)$$

9. $z_2 = 2(\cos 130^\circ + i \sin 130^\circ)$

$$z_3 = 2(\cos 250^\circ + i \sin 250^\circ)$$

11. $2i, -2, -2i, 2$

13. $1/2 + \sqrt{3}/2i, -1, 1/2 - \sqrt{3}/2i$